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=> s usherin
    49 FILES SEARCHED...
L1      208 USHERIN
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=> dup rem
ENTER L# LIST OR (END):11
DUPLICATE IS NOT AVAILABLE IN 'ADISINSIGHT, ADISNEWS, BIOCOMMERCE, DGENE,
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PROCESSING COMPLETED FOR L1
L2      138 DUP REM L1 (70 DUPLICATES REMOVED)
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=> s 12 and ("ush2a" or "ush 2a" or "ush2 a" or "ush-2a")
    14 FILES SEARCHED...
    32 FILES SEARCHED...
    47 FILES SEARCHED...
    65 FILES SEARCHED...
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L3 24 L2 AND ("USH2A" OR "USH 2A" OR "USH2 A" OR "USH-2A")

L3 ANSWER 1 OF 24 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
AN 2004:307918 BIOSIS
DN PREV200400305710
TI Genetic analysis of 2299delG and C759F mutations (**USH2A**) in
patients with visual and/or auditory impairments.
AU Aller, Elena; Najera, Carmen [Reprint Author]; Millan, Jose M.; Oltra,
Juan S.; Perez-Garrigues, Herminio; Vilela, Concepcion; Navea, Amparo;
Beneyto, Magdalena
CS Fac Ciencias BiolDept Genet, Univ Valencia, Dr Moliner 50, E-46100,
Valencia, Spain
Carmen.Najera@uv.es
SO European Journal of Human Genetics, (May 2004) Vol. 12, No. 5, pp.
407-410. print.
ISSN: 1018-4813.
DT Article
LA English
ED Entered STN: 7 Jul 2004
Last Updated on STN: 7 Jul 2004

L3 ANSWER 2 OF 24 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
AN 2003:387003 BIOSIS
DN PREV200300387003
TI The molecular genetics of Usher syndrome.
AU Ahmed, Z. M.; Riazuddin, S.; Wilcox, E. R. [Reprint Author]
CS Laboratory of Molecular Genetics, Section on Human Genetics, NIDCD, NIH, 5
Research Court, 2A-19, Rockville, MD, 20850-3227, USA
wilcox@nidcd.nih.gov
SO Clinical Genetics, (June 2003) Vol. 63, No. 6, pp. 431-444. print.
ISSN: 0009-9163 (ISSN print).
DT Article
General Review; (Literature Review)
LA English
ED Entered STN: 20 Aug 2003
Last Updated on STN: 20 Aug 2003

L3 ANSWER 3 OF 24 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
AN 2003:28147 BIOSIS
DN PREV200300028147
TI **Usherin** expression is highly conserved in mouse and human
tissues.
AU Pearsall, Nicole [Reprint Author]; Bhattacharya, Gautam; Wisecarver, Jim;
Adams, Joe; Cosgrove, Dominic; Kimberling, William
CS Boys Town National Research Hospital, 555 No. 30th St., Omaha, NE, USA
kimber@boystown.org
SO Hearing Research, (December 2002) Vol. 174, No. 1-2, pp. 55-63. print.
ISSN: 0378-5955 (ISSN print).
DT Article
LA English
ED Entered STN: 1 Jan 2003
Last Updated on STN: 1 Jan 2003

L3 ANSWER 4 OF 24 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
AN 2002:23328 BIOSIS
DN PREV200200023328
TI Distribution of **usherin** in humans and its effects on
reproduction in people with usher syndrome type II.
AU Pearsall, N. A. [Reprint author]; Bhattacharya, G. [Reprint author];
Cosgrove, D. [Reprint author]; Wisecarver, J. L.; Kimberling, W. J.
[Reprint author]
CS Genetics Department, Boys Town National Research Hospital, Omaha, NE, USA

SO American Journal of Human Genetics, (October, 2001) Vol. 69, No. 4
Supplement, pp. 651. print.
Meeting Info.: 51st Annual Meeting of the American Society of Human
Genetics. San Diego, California, USA. October 12-16, 2001.
CODEN: AJHGAG. ISSN: 0002-9297.

DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
Conference; (Meeting Poster)

LA English

ED Entered STN: 26 Dec 2001
Last Updated on STN: 25 Feb 2002

L3 ANSWER 5 OF 24 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
AN 2001:348191 BIOSIS
DN PREV200100348191
TI **Usherin** mutations associated with phenotypic variation in Usher
syndrome type IIa and retinitis pigmentosa patients.

AU Orten, D. J. [Reprint author]; Zeigler, T. [Reprint author]; Weston, M. D.
[Reprint author]; Carney, C. A. [Reprint author]; Kimberling, W. J.
[Reprint author]

CS Boys Town National Research Hospital, Omaha, NE, USA

SO IOVS, (March 15, 2001) Vol. 42, No. 4, pp. S644. print.
Meeting Info.: Annual Meeting of the Association for Research in Vision
and Ophthalmology. Fort Lauderdale, Florida, USA. April 29-May 04, 2001.
Association for Research in Vision and Ophthalmology.

DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)

LA English

ED Entered STN: 25 Jul 2001
Last Updated on STN: 19 Feb 2002

L3 ANSWER 6 OF 24 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
AN 2001:306545 BIOSIS
DN PREV200100306545
TI Spectrum of mutations in **USH2A** in British patients with Usher
syndrome type II.

AU Leroy, Bart P. [Reprint author]; Aragon-Martin, Jose A.; Weston, Michael
D.; Bessant, David A. R.; Willis, Catherine; Webster, Andrew R.; Bird,
Alan C.; Kimberling, William J.; Payne, Annette M.; Bhattacharya, Shomi S.

CS Department of Molecular Genetics, Institute of Ophthalmology, 11-43 Bath
Street, London, EC1V 9EL, UK
bart.leroy@rug.ac.be

SO Experimental Eye Research, (May, 2001) Vol. 72, No. 5, pp. 503-509. print.
CODEN: EXERA6. ISSN: 0014-4835.

DT Article

LA English

ED Entered STN: 27 Jun 2001
Last Updated on STN: 19 Feb 2002

L3 ANSWER 7 OF 24 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
AN 2000:252758 BIOSIS
DN PREV200000252758
TI Genomic structure and identification of novel mutations in **Usherin**
, the gene responsible for Usher syndrome type IIa.

AU Weston, M. D.; Eudy, J. D.; Fujita, S.; Yao, S.-F.; Usami, S.; Cremers,
C.; Greenburg, J.; Ramesar, R.; Martini, A.; Moller, C.; Smith, R. J.;
Sumegi, J.; Kimberling, William J. [Reprint author]

CS Boys Town National Research Hospital, 555 North 30th Street, Omaha, NE,
68131, USA

SO American Journal of Human Genetics, (April, 2000) Vol. 66, No. 4, pp.
1199-1210. print.
CODEN: AJHGAG. ISSN: 0002-9297.

DT Article

LA English
ED Entered STN: 21 Jun 2000
Last Updated on STN: 5 Jan 2002

L3 ANSWER 8 OF 24 CANCERLIT on STN
AN 2002168523 CANCERLIT
DN 22106108 PubMed ID: 12112664
TI Mutations in myosin VIIA (MYO7A) and **usherin** (USH2A)
in Spanish patients with Usher syndrome types I and II, respectively.
AU Najera Carmen; Beneyto Magdalena; Blanca Jose; Aller Elena; Fontcuberta
Ana; Millan Jose Maria; Ayuso Carmen
CS Departamento de Genetica, Facultad de Ciencias Biologicas, Universidad de
Valencia, Valencia, Spain.. Carmen.Najera@uv.es
SO HUMAN MUTATION, (2002 Jul) 20 (1) 76-7.
Journal code: 9215429. ISSN: 1098-1004.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS MEDLINE; Priority Journals
OS MEDLINE 2002366655
EM 200208
ED Entered STN: 20021018
Last Updated on STN: 20021018

L3 ANSWER 9 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2004:699598 CAPLUS
DN 141:329966
TI **USH2A** mutation analysis in 70 Dutch families with Usher syndrome
type II
AU Pennings, Ronald J. E.; te Brinke, Heleen; Weston, Michael D.; Claassen,
Annemarie; Orten, Dana J.; Weekamp, Henriette; van Aarem, Annelies;
Huygen, Patrick L. M.; Deutman, August F.; Hoefsloot, Lies H.; Cremers,
Frans P. M.; Cremers, Cor W. R. J.; Kimberling, William J.; Kremer, Hannie
CS Department of Otorhinolaryngology, UMC Nijmegen, Nijmegen, Neth.
SO Human Mutation (2004), 24(2), 730/1-730/8
CODEN: HUMUE3; ISSN: 1059-7794
PB Wiley-Liss, Inc.
DT Journal
LA English
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L3 ANSWER 10 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2004:694718 CAPLUS
DN 141:275526
TI Comprehensive screening of the **USH2A** gene in Usher syndrome type
II and non-syndromic recessive retinitis pigmentosa
AU Seyedahmadi, Babak Jian; Rivolta, Carlo; Keene, Julia A.; Berson, Eliot
L.; Dryja, Thaddeus P.
CS Harvard Medical School, Ocular Molecular Genetics Institute, Massachusetts
Eye and Ear Infirmary, Boston, MA, 02114, USA
SO Experimental Eye Research (2004), 79(2), 167-173
CODEN: EXERA6; ISSN: 0014-4835
PB Elsevier
DT Journal
LA English
RE.CNT 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 11 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2004:537880 CAPLUS
DN 141:293912
TI Immunohistochemistry and Reverse Transcriptase-Polymerase Chain Reaction

as Methods for Diagnostic Determination of Usher Syndrome Type IIa
 AU Cohn, Edward; Bhattacharya, Gautam; Pearsall, Nicole; Shendrik, Igor;
 Kimberling, William; Cosgrove, Dominic
 CS Usher Syndrome Center, Creighton University School of Medicine, Omaha, NE,
 USA
 SO Laryngoscope (2004), 114(7), 1310-1314
 CODEN: LARYA8; ISSN: 0023-852X
 PB Lippincott Williams & Wilkins
 DT Journal
 LA English

RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 12 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2002:603796 CAPLUS
 DN 137:308198
 TI Genetics of Usher-syndrome
 AU Bolz, Hanno; Gal, Andreas
 CS Institut fur Humangenetik des Universitätsklinikums, Hamburg-Eppendorf,
 Germany
 SO Medizinische Genetik (2002), 14(1), 10-14
 CODEN: MGENEZ; ISSN: 0936-5931
 PB Verlag Medizinischegenetik
 DT Journal; General Review
 LA German

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 13 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2002:576854 CAPLUS
 DN 137:350607
 TI Mutations in myosin VIIA (MYO7a) and **usherin** (USH2a)
 in Spanish patients with Usher syndrome types I and II, respectively
 AU Najera, Carmen; Beneyto, Magdalena; Blanca, Jose; Aller, Elena;
 Fontcuberta, Ana; Millan, Jose Maria; Ayuso, Carmen
 CS Departamento de Genetica. Facultad de Ciencias Biologicas. Universidad de
 Valencia, Valencia, 46100, Spain
 SO Human Mutation (2002), 20(1), 513/1-513/7
 CODEN: HUMUE3; ISSN: 1059-7794
 PB Wiley-Liss, Inc.
 DT Journal
 LA English

RE.CNT 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 14 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2002:556025 CAPLUS
 DN 137:124204
 TI **Usherin** protein, gene, antibodies and immunoconjugates for
 diagnosis and therapy of Usher syndrome type IIa
 IN Cosgrove, Dominic E.
 PA Boys Town National Research Hospital, USA
 SO U.S. Pat. Appl. Publ., 40 pp.
 CODEN: USXXCO
 DT Patent
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002098516	A1	20020725	US 2001-970318	20011003
PRAI	US 2000-237834P	P	20001003		

L3 ANSWER 15 OF 24 DGENE COPYRIGHT 2005 The Thomson Corp on STN

AN ABG32845 Protein DGENE
 TI Determining Usher syndrome type IIa in individual and detecting human **usherin** protein, by incubating sample with antibody immunoreactive with usher protein to produce immunoconjugate, and detecting immunoconjugate -
 IN Cosgrove D E
 PA (BOYS-N) BOYSTOWN NAT RES HOSPITAL.
 PI US 2002098516 A1 20020725 40
 AI US 2001-970318 20011003
 PRAI US 2000-237834P 20001003
 DT Patent
 LA English
 OS 2002-690477 [74]
 CR N-PSDB: ABS52998
 DESC Human **Usherin** protein **USH2a**.

L3 ANSWER 16 OF 24 DGENE COPYRIGHT 2005 The Thomson Corp on STN
 AN ABG32844 Protein DGENE
 TI Determining Usher syndrome type IIa in individual and detecting human **usherin** protein, by incubating sample with antibody immunoreactive with usher protein to produce immunoconjugate, and detecting immunoconjugate -
 IN Cosgrove D E
 PA (BOYS-N) BOYSTOWN NAT RES HOSPITAL.
 PI US 2002098516 A1 20020725 40
 AI US 2001-970318 20011003
 PRAI US 2000-237834P 20001003
 DT Patent
 LA English
 OS 2002-690477 [74]
 DESC Human **Usherin** protein **USH2a**, immunogenic peptide #2.

L3 ANSWER 17 OF 24 DGENE COPYRIGHT 2005 The Thomson Corp on STN
 AN ABG32843 Peptide DGENE
 TI Determining Usher syndrome type IIa in individual and detecting human **usherin** protein, by incubating sample with antibody immunoreactive with usher protein to produce immunoconjugate, and detecting immunoconjugate -
 IN Cosgrove D E
 PA (BOYS-N) BOYSTOWN NAT RES HOSPITAL.
 PI US 2002098516 A1 20020725 40
 AI US 2001-970318 20011003
 PRAI US 2000-237834P 20001003
 DT Patent
 LA English
 OS 2002-690477 [74]
 DESC Human **Usherin** protein **USH2a**, immunogenic peptide #1.

L3 ANSWER 18 OF 24 DGENE COPYRIGHT 2005 The Thomson Corp on STN
 AN ABS52998 cDNA DGENE
 TI Determining Usher syndrome type IIa in individual and detecting human **usherin** protein, by incubating sample with antibody immunoreactive with usher protein to produce immunoconjugate, and detecting immunoconjugate -
 IN Cosgrove D E
 PA (BOYS-N) BOYSTOWN NAT RES HOSPITAL.
 PI US 2002098516 A1 20020725 40
 AI US 2001-970318 20011003
 PRAI US 2000-237834P 20001003
 DT Patent
 LA English
 OS 2002-690477 [74]
 CR P-PSDB: ABG32845

DESC Human cDNA encoding **Usherin** protein **USH2a**.

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on STN
AN 2004153358 EMBASE
TI Mutational spectrum in Usher syndrome type II.
AU Ouyang X.M.; Yam D.; Hejtmancik J.F.; Jacobson S.G.; Li A.R.; Du L.L.;
Angeli S.; Kaiser M.; Balkany T.; Liu X.Z.
CS Dr. X.Z. Liu, Department of Otolaryngology, University of Miami, 1666 NW
12th Avenue, Miami, FL 33136, United States. xliu@med.miami.edu
SO Clinical Genetics, (2004) Vol. 65, No. 4, pp. 288-293.
Refs: 32
ISSN: 0009-9163 CODEN: CLGNAY
CY United Kingdom
DT Journal; Article
FS 012 Ophthalmology
022 Human Genetics
LA English
SL English
ED Entered STN: 20040422
Last Updated on STN: 20040422

L3 ANSWER 20 OF 24 FEDRIP COPYRIGHT 2005 NTIS on STN
AN 2005:177436 FEDRIP
NR CRISP 5R01DC004844-03
TI **USHERIN: STRUCTURAL AND FUNCTIONAL ANALYSIS**
SF Principal Investigator: COSGROVE, DOMINIC E; COSGROVE@BOYSTOWN.ORG, FATHER
FLANAGAN'S BOYS' HOME, 555 NORTH 30TH STREET, OMAHA, NE 68131
CSP FATHER FLANAGAN'S BOYS' HOME, BOYS TOWN, NEBRASKA
CSS Supported By: NATIONAL INSTITUTE ON DEAFNESS AND OTHER COMMUNICATION
DISORDERS
DB 2009 (/01/02)
FYR 2004
DE 2008 (/31/07)
FU Noncompeting Continuation (Type 5)
FS National Institutes of Health

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LOCUS (LOC): AY481573 GenBank (R)
GenBank ACC. NO. (GBN): AY481573
GenBank VERSION (VER): AY481573.1 GI:44887472
CAS REGISTRY NO. (RN): 664940-65-2
SEQUENCE LENGTH (SQL): 18883
MOLECULE TYPE (CI): mRNA; linear
DIVISION CODE (CI): Primates
DATE (DATE): 30 Mar 2004
DEFINITION (DEF): Homo sapiens Usher syndrome 2A isoform B (**USH2A**
) mRNA, complete cds.
SOURCE: Homo sapiens (human)
ORGANISM (ORGN): Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
Hominidae; Homo
REFERENCE:
1 (bases 1 to 18883)
AUTHOR (AU): Van Wijk, E.; Pennings, R.J.; Te Brinke, H.; Claassen, A.;
Yntema, H.G.; Hoefsloot, L.H.; Cremers, F.P.;
Cremers, C.W.; Kremer, H.
TITLE (TI): Identification of 51 Novel Exons of the Usher Syndrome
Type 2A (**USH2A**) Gene That Encode Multiple
Conserved Functional Domains and That Are Mutated in
Patients with Usher Syndrome Type II
JOURNAL (SO): Am. J. Hum. Genet., 74 (4), 738-744 (2004)

OTHER SOURCE (OS): CA 140:386911
REFERENCE: 2 (bases 1 to 18883)
AUTHOR (AU): van Wijk, E.; te Brinke, H.; Kremer, H.
TITLE (TI): Direct Submission
JOURNAL (SO): Submitted (19-NOV-2003) Otorhinolaryngology, UMC
Nijmegen, Geert Grooteplein 10, Nijmegen 6525 GA,
Netherlands

FEATURES (FEAT):

Feature Key	Location	Qualifier
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5'UTR	1..387	/gene="USH2A"
CDS	388..15996	/gene="USH2A" /note="usherin" /codon-start=1 /product="Usher syndrome 2A isoform B" /protein-id="AAS47698.1" /db-xref="GI:44804677" /translation="MNCVLSLGSGLFQVIEML IFAYFASISLTESRGLFPRLENVG AFKKVSIVPTQAVCGLPDRSTFCHSSAAAESIQF CTQRFICIQDCPYRSSHPTYTALFS AGLSSCITPDKNLHPNAHSNSASFIFGNHKSCF SSPPSPKLMAFRTLAVWLKPEQQG VMCVIEKTVDGQIVFKLTISEKETMFYYRTVNGL QPPIKVMTLGRILVKKWIHLSVQV HQTKISFFINGVEKDHTPFNARTLSGSITDFASG TVQIGQSLNGLEQFVGRMQDFRLY QVALTNREILEVFSGDLLRLHAQSHCRCPGSHPR VHPLAQRYCIPNDAGDTADNRVSR LNPEAHPLSFVNDNDVGTSWVSNVFTNITQLNQG VTISVDLENGQYQVFYIIIIQFFSP QPTEIRIQRKENS LDWEDWQYFARNCGAFGMKN NGDLEKPDVSNCLQLSNFTPYSRG NVTFSILT PGPNYRPGYNNFYNTPSLQEFVKATQ IRFHFHGQYYTTETAVNLRHRYYA VDEITISGRQCQCHGHADNCDTTSQPYRCLCSQES FTEGLHCDRCLPLYNDKPFQGDQ VYAFNCKPCQCNSHSHSKCHYNI SVDPFPFEHFRG GGGVCDDEHNTTGRNCELCKDYF FRQVGADPSAIDVCKPCDCDTVGTNRNGSILCDQI GGQCNCNRHVSGRQCNCQNGFYN LQELDPDGCSPCNCNTSGTVDGDITCHQNSGQCK CKANVIGLRCDHCNFGFKFLRSFN DVGCEPCQCNLHGSVNKFCNPHSGQCECKKEAKG LQCDTCRENFYGLDVTNCKACDCD TAGSLPGTVCNAKTGQCICKPNVEGRQCNCLEG NFYLRQNNNFLCLPCNCDKTGTIN GSLLCNKSTGQCPCKLGVTLRCNQCEPHRYNLT IDNFQHCQMCECDSLGLTLPGTICD PISGQCLCVPNRQGRRCNQCPGFYISPGNATGC LPCSCHTTGAVNHICNSLTGQCV QDASIAGQRCDQCKDHYFGFDPQTGRCQPCNCHL SGALNETCHLVTGQCFCQFVTGS KCDACVPSASHLDVNNLLGCSKTPFQQPPPRGQV QSSSAINLSWSPDSPAHLWTYS

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L3 ANSWER 22 OF 24 GENBANK® COPYRIGHT 2005 on STN

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DIVISION CODE (CI):   Rodents
DATE (DATE):          12 Aug 2002
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SOURCE:               Norway rat.
ORGANISM (ORGN):      Rattus norvegicus
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NUCLEIC ACID COUNT (NA): 1553 a 1520 c 1425 g 1634 t 14 others
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AUTHOR (AU):          Huang,D.; Eudy,J.D.; Uzvolgyi,E.; Davis,J.R.;
                        Talmadge,C.B.; Pretto,D.; Weston,M.D.; Lehman,J.E.;
                        Zhou,M.; Seemayer,T.A.; Ahmad,I.; Kimberling,W.J.;
                        Sumegi,J.
TITLE (TI):            Identification of the Mouse and Rat Orthologs of the
                        Gene Mutated in Usher Syndrome Type IIA and the
                        Cellular Source of USH2A mRNA in Retina, a
                        Target Tissue of the Disease
JOURNAL (SO):          Genomics, 80 (2), 195-203 (2002)
OTHER SOURCE (OS):     CA 137:347242
REFERENCE:             2 (bases 1 to 6146)
AUTHOR (AU):          Sumegi,J.; Huang,D.; Davis,J.R.
TITLE (TI):            Direct Submission
JOURNAL (SO):          Submitted (31-JAN-2002) Center for Human Molecular
                        Genetics, University of Nebraska Medical Center, 985454
                        Nebraska Medical Center, Omaha, NE 68198-5454, USA

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protein; similar Homo sapiens
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L3 ANSWER 23 OF 24 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on
 STN
 AN 2005:640444 SCISEARCH
 GA The Genuine Article (R) Number: 911CZ
 TI Genetic and biochemical analyses of the **Ush2A** protein (
usherin)
 AU Liu X (Reprint); Bulgakov O V; Pawlyk B; Adamian M; Li T
 SO INVESTIGATIVE OPHTHALMOLOGY & VISUAL SCIENCE, (2005) Vol. 46, Supp. [S].
 MA 5190.
 ISSN: 0146-0404.
 PB ASSOC RESEARCH VISION OPHTHALMOLOGY INC, 12300 TWINBROOK PARKWAY,
 ROCKVILLE, MD 20852-1606 USA.
 DT Conference; Journal
 LA English
 REC Reference Count: 0
 ED Entered STN: 29 Jun 2005
 Last Updated on STN: 29 Jun 2005

L3 ANSWER 24 OF 24 TOXCENTER COPYRIGHT 2005 ACS on STN
AN 2002:270753 TOXCENTER
CP Copyright 2005 ACS
DN CA13724350607B
TI Mutations in myosin VIIA (MYO7a) and **usherin** (USH2a)
in Spanish patients with Usher syndrome types I and II, respectively
AU Najera, Carmen; Beneyto, Magdalena; Blanca, Jose; Aller, Elena;
Fontcuberta, Ana; Millan, Jose Maria; Ayuso, Carmen
CS Departamento de Genetica. Facultad de Ciencias Biologicas. Universidad de
Valencia, Valencia, 46100, Spain.
SO Human Mutation, (2002) Vol. 20, No. 1, pp. 513/1-513/7.
CODEN: HUMUE3. ISSN: 1059-7794.
CY SPAIN
DT Journal
FS CAPLUS
OS CAPLUS 2002:576854
LA English
ED Entered STN: 20021126
Last Updated on STN: 20050215

=> s usherin and express?

24 FILES SEARCHED...

29 FILES SEARCHED...

52 FILES SEARCHED...

L1 26 USHERIN AND EXPRESS?

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NUTRACEUT, PCTGEN, PHAR, PHARMAML, PROUSDDR, PS, RDISCLOSURE, SYNTHLINE'.
ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE

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files.

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L2 ANSWER 1 OF 11 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
DUPLICATE 1

AN 2004-23454 BIOTECHDS

TI Selectively transducing retinal pigment epithelium (RPE) cells using a
vector particle exhibiting an AAV-4 capsid protein, useful for
preventing, treating or alleviating an eye disease in a mammal;
adeno-associated virus vector-mediated gene transfer and
expression in host cell for eye disease gene therapy

AU ROLLING F; WEBER M

PA UNIV NANTES

PI WO 2004084951 7 Oct 2004

AI WO 2004-EP4020 26 Mar 2004

PRAI US 2003-400531 28 Mar 2003; US 2003-400531 28 Mar 2003

DT Patent

LA English

OS WPI: 2004-710276 [69]

L2 ANSWER 2 OF 11 IFIPAT COPYRIGHT 2005 IFI on STN DUPLICATE 2

AN 10701606 IFIPAT;IFIUDB;IFICDB

TI METHOD AND VECTORS FOR SELECTIVELY TRANSDUCING RETINAL PIGMENT EPITHELIUM

CELLS
IN Rolling Fabienne (FR); Weber Michel (FR)
PA Unassigned Or Assigned To Individual (68000)
PI US 2004208847 A1 20041021
AI US 2003-400531 20030328
FI US 2004208847 20041021
DT Utility; Patent Application - First Publication
FS CHEMICAL
APPLICATION

CLMN 22

GI 5 Figure(s).

FIG. 1. Rat model: Rats were injected with rAAV-2/4. CMV.gfp and analyzed 30 days post injection (p.i.). Fluorescent retinal imaging (A).

Sclera/choroid/RPE (B) and neuroretina (C) flatmounts. Sections from sclera/choroid/RPE (D) and neuroretina (E) examined under an inverted fluorescence microscope. RPE: retinal pigmented epithelium; ONL: outer nuclear layer; INL: inner nuclear layer; GCL: ganglion cell layer.

FIG. 2. Nonhuman primate model: Live fluorescent retinal imaging at different time intervals (14, 21, 35, and 60 days p.i.) in Mac1 and Mac2. Both individuals received rAAV-2/4. CMV.gfp. (*) retinal detachment created by the subretinal injection.

FIG. 3. Nonhuman primate model: Two months p.i., neuroretina (A, B and D) and choroid/RPE (C) flatmounts were performed and examined under inverted fluorescence microscope. M, macula; ONH, optical nerve head, RV, retinal vessel.

FIG. 4. Nonhuman primate model: Sections from neuroretina (A, B) and choroid/RPE (C, D) flatmounts and were either analyzed by normal light microscope (A, C) or inverted fluorescence microscope (B, D). See legend FIG. 1 for RPE, ONL, INL and GCL.

FIG. 5. Vector shedding after subretinal delivery of rAAV-2/4. CMV.gfp in nonhuman primate (Mac1). PCR assay for sensitivity (A). Serum (s), lacrymal (l) and nasal (n) samples are represented (B). DNA marker (M), positive control on 25 pg of vector plasmid (+), negative control on water (-). Samples were collected 15 min, 2 hr and from day 1 to 28 p.i.

L2 ANSWER 3 OF 11 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN

AN 2004:662568 SCISEARCH

GA The Genuine Article (R) Number: 837QT

TI Immunohistochemistry and reverse transcriptase-polymerase chain reaction as methods for diagnostic determination of Usher syndrome type IIa

AU Cohn E; Bhattacharya G; Pearsall N; Shendrik I; Kimberling W; Cosgrove D (Reprint)

CS Boys Town Natl Res Hosp, Usher Syndrome Ctr, 555 N 30th St, Omaha, NE 68131 USA (Reprint); Boys Town Natl Res Hosp, Usher Syndrome Ctr, Omaha, NE 68131 USA; Creighton Univ, Sch Med, Dept Pathol, Omaha, NE USA
Cosgrove@boystown.org

CYA USA

SO LARYNGOSCOPE, (JUL 2004) Vol. 114, No. 7, pp. 1310-1314.
ISSN: 0023-852X.

PB LIPPINCOTT WILLIAMS & WILKINS, 530 WALNUT ST, PHILADELPHIA, PA 19106-3621 USA.

DT Article; Journal

LA English

REC Reference Count: 14

ED Entered STN: 13 Aug 2004

Last Updated on STN: 13 Aug 2004

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L2 ANSWER 4 OF 11 IFIPAT COPYRIGHT 2005 IFI on STN DUPLICATE 3

AN 10154875 IFIPAT;IFIUDB;IFICDB

TI IMMUNODIAGNOSTIC DETERMINATION OF USHER SYNDROME TYPE IIA; DIAGNOSING PREFERENTIAL GENETIC DISORDER IN HUMANS; OBTAIN SAMPLE, INCUBATE WITH

ANTIBODY, DETECT BOUND ANTIBODY, COMPARE TO CONTROL, EVALUATE PATTERN FOR
GENETIC DISORDER.

IN Cosgrove Dominic E
PA Boys Town National Research Hospital (63491)
PI US 2002098516 A1 20020725
AI US 2001-970318 20011003
PRAI US 2000-237834P 20001003 (Provisional)
FI US 2002098516 20020725
DT Utility; Patent Application - First Publication
FS CHEMICAL
APPLICATION
OS CA 137:89726
CLMN 41
GI 9 Figure(s).

FIG. 1 illustrates the major structural elements of the **usherin** protein based on amino acid sequence. The amino acid positions where domains start and end are indicated. The location of polypeptides used to derive antibodies 1 (SEQ ID NO:1) and 2 (SEQ ID NO:2) used in these studies are shown. Constructs used to generate fusion peptides comprised the indicated portions of the LN, LE, and fibronectin type III domains (LN-FP, LE-FP, and FN-FP, respectively).

FIG. 2 is a Western blot of immunoprecipitated protein from extracts of retina and cochlea. For both gels: lane 1 is retinal extract; lane 2 is retinal extract immunoprecipitated with pre-immune serum; lane 3 is cochlear extract; lane 4 is cochlear extract precipitated with pre-immune serum. For the gel on the left, lanes 1 and 3 were immunoprecipitated with antibody 2 and blot probed with antibody 1. For the gel in the right, lane 1 and 3 were immunoprecipitated with antibody 1 and the blot was probed with antibody 2.

FIG. 3 is commercially available PolyA+ RNA dot blot from various mouse tissues. The blot was hybridized to a cDNA fragment corresponding to the LN domain of the protein. The template on the right indicates the tissues from which the corresponding RNA spot on the left was prepared.

FIG. 4 is an immunoperoxidase detection of tissues where **usherin** is **expressed**. A survey for **usherin expression** was conducted on mouse tissues. This figure summarizes where **usherin** was **expressed**. Serial sections were stained with hematoxylin and eosin (H&E) to illustrate tissue architecture, or with antiusherin (left panels), or anti-collagen alpha 1 (IV), which specifically localizes to the basement membranes. Arrows indicate **usherin** in the capillary basement membranes of the epididymus (D) and the spleen (J). Epidid=epididymus; Submax=submaxillary gland; Sm int=small intestine.

FIG. 5 is an immunoperoxidase detection of tissues where **usherin** is not **expressed**. Serial section were stained with hematoxylin and eosin (H&E) to illustrate tissue architecture, or with antiusherin (left panels), or anti-collagen alpha 1 (IV), which specifically localizes to the basement membranes. Sk musc=skeletal muscle; Sm musc=smooth muscle. Magnification bars are 50 μ m.

FIG. 6 is an **expression** of **usherin** in the inner ear and the eye of the mouse, and in the human retina. Mid-modiolar cross sections of the adult (8 wks) cochlea (A, B, C), or post-natal day 0 cochlea (G, H, I), or cross sections of adult retina (D, E, F) were immunostained with anti-**usherin** antibodies (A, D, G) or anti-type IV collagen antibodies (C, F, E). Eosin and hematoxylin stained serial sections are illustrated to provide a cellular frame of reference (B, E, H). Arrows in A and C denote the strial capillary basement membranes, and arrows in D, E, and F denote immunostaining in the basement membranes in Bruch's layer of the retina. Panel J shows **expression** of the **usherin** protein in the Bruch's layer and the choroid capillaries in human retina. Human retina was immunostained using the anti-**usherin** (raised against the mouse protein) antibody. Arrow heads indicate linear immunostaining in the

basement membranes on either limiting side of the Bruch's layer (BL). RPE=retinal pigment epithelial side; CL=choroid layer. Magnification bars are 50 μ m.

FIG. 7 is an immunogold localization of **usherin** to the basement membranes in strial capillaries, and the basement membrane in Bruch's layer of the retina. Arrows indicate immunogold particle deposition in the strial capillary basement membranes (A) and the basement membranes of the Bruch's layer (B) establishing **usherin** as a basement membrane protein. Note the proximity of the type I collagen fibrils with the basement membrane in B. CL=capillary lumen; MC=marginal cell; IPM=interphotoreceptor cell matrix; BL=Bruch's layer. Magnification bars are 50 μ m.

FIG. 8 is a Western blot illustrating the direct interaction of **usherin** with type IV collagen and the indirect interaction of **usherin** with type I collagen. The LE domain of **usherin** interacts with type IV collagen (panels A and B). Extracts of matrix from the indicated mouse tissues were (A) reacted with the fusion peptide comprising the LE-domain, immunoprecipitated with anti-GST antibodies, and the immunoprecipitate western blotted using anti-type IV collagen antibodies, or (B) directly immunoprecipitated with anti-type IV collagen antibodies and the immunoprecipitate western blotted using anti-**usherin** antibodies. The molecular weight markers are given in kilodaltons. The LN domain of **usherin** interacts with type I collagen (panel C). Extracts from the indicated tissues were reacted with the fusion peptide comprising the LN domain and immunoprecipitated with anti-GST antibodies. The immunoprecipitate was analyzed by western blot and probed with antibodies specific for type I collagen.

FIG. 9 is a Western blot illustrating the interaction of **usherin** with itself, possibly forming a suprastructural network integrated into the basement membrane architecture. In panel A, the indicated fusion peptides were mixed with protein extracts from the eye, after removal of the lens lanes 1, 3, 4, 6, 7, and 9 or the liver (lanes 2, 5, and 8) or with pre-immune serum (lanes 3, 6, and 9). The immunoprecipitate was analyzed by western blot probed with anti-**usherin** antibodies. Only the LN domain was capable of immunoprecipitating **usherin** from retinal extracts (lane 1). In panel B, purified fusion peptides were mixed in various combinations and crosslinked using dimethyl sublimidate (crosslinked mixtures are followed by an "X"). Products were resolved by PAGE, and stained with Coomassie blue. Arrows denote dimeric and trimeric crosslinked product.

L2 ANSWER 5 OF 11 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
DUPLICATE 4

AN 2003:28147 BIOSIS

DN PREV200300028147

TI **Usherin expression** is highly conserved in mouse and human tissues.

AU Pearsall, Nicole [Reprint Author]; Bhattacharya, Gautam; Wisecarver, Jim; Adams, Joe; Cosgrove, Dominic; Kimberling, William

CS Boys Town National Research Hospital, 555 No. 30th St., Omaha, NE, USA
kimber@boystown.org

SO Hearing Research, (December 2002) Vol. 174, No. 1-2, pp. 55-63. print.
ISSN: 0378-5955 (ISSN print).

DT Article

LA English

ED Entered STN: 1 Jan 2003

Last Updated on STN: 1 Jan 2003

L2 ANSWER 6 OF 11 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
DUPLICATE 5

AN 2002:149106 BIOSIS

DN PREV200200149106

TI Localization and **expression** of **usherin**: A novel

basement membrane protein defective in people with Usher's syndrome type IIa.

AU Bhattacharya, Gautam; Miller, Caroline; Kimberling, William J.; Jablonski, Monica M.; Cosgrove, Dominic [Reprint author]

CS Boys Town National Research Hospital, 555 No. 30th St., Omaha, NE, USA
cosgrove@boystown.org

SO Hearing Research, (January, 2002) Vol. 163, No. 1-2, pp. 1-11. print.
CODEN: HERED3. ISSN: 0378-5955.

DT Article

LA English

ED Entered STN: 14 Feb 2002
Last Updated on STN: 26 Feb 2002

L2 ANSWER 7 OF 11 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
DUPLICATE 6

AN 2001:351842 BIOSIS

DN PREV200100351842

TI **Expression**, distribution, and integration of **usherin**:
A novel basement membrane protein defective in people with Usher syndrome type IIa.

AU Cosgrove, D. E. [Reprint author]; Bhattacharia, G. [Reprint author]; Kalluri, R.; Kimberling, W. J. [Reprint author]; Jablonski, M. M.

CS Genetics, Boys Town Nat'l Research Hosp, Omaha, NE, USA

SO IOVS, (March 15, 2001) Vol. 42, No. 4, pp. S654. print.
Meeting Info.: Annual Meeting of the Association for Research in Vision and Ophthalmology. Fort Lauderdale, Florida, USA. April 29-May 04, 2001. Association for Research in Vision and Ophthalmology.

DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)

LA English

ED Entered STN: 25 Jul 2001
Last Updated on STN: 19 Feb 2002

L2 ANSWER 8 OF 11 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

AN 2002:23328 BIOSIS

DN PREV200200023328

TI Distribution of **usherin** in humans and its effects on reproduction in people with usher syndrome type II.

AU Pearsall, N. A. [Reprint author]; Bhattacharya, G. [Reprint author]; Cosgrove, D. [Reprint author]; Wisecarver, J. L.; Kimberling, W. J. [Reprint author]

CS Genetics Department, Boys Town National Research Hospital, Omaha, NE, USA

SO American Journal of Human Genetics, (October, 2001) Vol. 69, No. 4 Supplement, pp. 651. print.
Meeting Info.: 51st Annual Meeting of the American Society of Human Genetics. San Diego, California, USA. October 12-16, 2001.
CODEN: AJHGAG. ISSN: 0002-9297.

DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
Conference; (Meeting Poster)

LA English

ED Entered STN: 26 Dec 2001
Last Updated on STN: 25 Feb 2002

L2 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2000:790655 CAPLUS

DN 133:345575

TI Secretory **expression** systems for microorganisms using periplasmic chaperones and secretins of Gram-negative bacteria

IN Korpela, Timo; MacIntyre-Ayane, Sheila; Zavialov, Anton Vladimirovich; Battchikova, Natalia Vsevolodovna; Petrovskaya, Lada Evgenievna; Korobko, Vyacheslav Grigorievich; Zav'yalov, Vladimir Petrovich

PA Finland

SO PCT Int. Appl., 49 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000066756	A1	20001109	WO 2000-FI387	20000503
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	FI 9901014	A	20001105	FI 1999-1014	19990504
	FI 109361	B1	20020715		
	CA 2370436	AA	20001109	CA 2000-2370436	20000503
	EP 1173592	A1	20020123	EP 2000-922689	20000503
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	NZ 515483	A	20030926	NZ 2000-515483	20000503
	AU 777246	B2	20041007	AU 2000-43003	20000503
	AU 2000043003	A5	20001117		
	ZA 2001009231	A	20021108	ZA 2001-9231	20011108
PRAI	FI 1999-1014	A	19990504		
	WO 2000-FI387	W	20000503		

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 10 OF 11 FEDRIP COPYRIGHT 2005 NTIS on STN

AN 2005:177436 FEDRIP

NR CRISP 5R01DC004844-03

TI **USHERIN: STRUCTURAL AND FUNCTIONAL ANALYSIS**

SF Principal Investigator: COSGROVE, DOMINIC E; COSGROVE@BOYSTOWN.ORG, FATHER FLANAGAN'S BOYS' HOME, 555 NORTH 30TH STREET, OMAHA, NE 68131

CSP FATHER FLANAGAN'S BOYS' HOME, BOYS TOWN, NEBRASKA

CSS Supported By: NATIONAL INSTITUTE ON DEAFNESS AND OTHER COMMUNICATION DISORDERS

DB 2009 (/01/02)

FYR 2004

DE 2008 (/31/07)

FU Noncompeting Continuation (Type 5)

FS National Institutes of Health

L2 ANSWER 11 OF 11 GENBANK® COPYRIGHT 2005 on STN

LOCUS (LOC): CA757424 GenBank (R)

GenBank ACC. NO. (GBN): CA757424

GenBank VERSION (VER): CA757424.1 GI:25801463

CAS REGISTRY NO. (RN): 550046-88-3

SEQUENCE LENGTH (SQL): 255

MOLECULE TYPE (CI): mRNA; linear

DIVISION CODE (CI): **Expressed sequence tag**

DATE (DATE): 27 Nov 2002

DEFINITION (DEF): OD105G02_T3.CRO OD Oryza sativa cDNA clone
OD105G02_T3.CRO similar to **usherin** [Rattus norvegicus], mRNA sequence.

KEYWORDS (ST): EST

SOURCE: Oryza sativa

ORGANISM (ORGN): Oryza sativa

Eukaryota; Viridiplantae; Streptophyta; Embryophyta;
Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida;
Poales; Poaceae; Ehrhartoideae; Oryzeae; Oryza

NUCLEIC ACID COUNT (NA): 75 a 52 c 62 g 66 t

COMMENT:

Contact: Mark Fredricksen
Department of Plant Biology
University of Illinois
1201 W. Gregory Dr., Urbana, IL 61801, USA
Tel: 2172655473
Email: bohnertlab@life.uiuc.edu.

REFERENCE: 1 (bases 1 to 255)

AUTHOR (AU): Bohnert,H.J.; Borchert,C.; Brazille,S.; Brooks,J.;
Eaton,M.; Ferrea,H. ; Kawasaki,S.; McCollough,A.;
Michalowski,C.B.; Palacio,C.; Scara,G.; Wheeler,M.;
Zepeda,G.R.

TITLE (TI): Functional Genomics of Plant Stress Tolerance

JOURNAL (SO): Unpublished (2000)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..255	/organism="Oryza sativa" /strain="Pokkali" /db-xref="taxon:4530" /clone="OD105G02-T3.CRO" /clone-lib="OD" /tissue-type="roots" /dev-stage="1 week" /note="1 d 150mM NaCl"

SEQUENCE (SEQ):

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121 aacgaacctt tttgcactag tgaacacagc cggcttgcaa gttgtggatg gtttggtgat
181 gaagcataga ggccgaccgc agtgagatga atggctgttt ttgacactgg gttaatgatt
241 gtggacaaaa acctt

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